

Clean Set of All Pending Claims

December 19, 2001

1. (Reiterated) An isolated polypeptide comprising an amino acid sequence encoding the EGF-like domain of SEQ ID NO:4.

4. (Reiterated) The polypeptide of claim 1, wherein the polypeptide binds to the ErbB4 receptor and activates tyrosine phosphorylation of the ErbB4 receptor.

39. (Amended) An isolated polypeptide comprising an EGF-like domain, wherein the EGF-like domain consists of an amino acid sequence having at least 75% amino acid sequence identity to SEQ ID NO:4, and wherein the EGF-like domain has the binding characteristics of NRG3 comprising:

(a) binding to ErbB4 receptor but not to ErbB2 receptor or ErbB3 receptor wherein the binding to each receptor is in the absence of the other receptors; and

(b) activation of ErbB4 receptor tyrosine phosphorylation.